

**Notice of Allowability****Application No.**

10/055,279

**Examiner**

HUYEN X. VO

**Applicant(s)**

BYRD ET AL.

**Art Unit**

2626

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 7/18/2008.
2. ☒ The allowed claim(s) is/are 1-22.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

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| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application                                |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                               | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                              |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material         | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance             |
|  | 9. <input type="checkbox"/> Other _____  |

**DETAILED ACTION**

**EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Webb Hunter on 10/17/2008. Claims 1 and 21-22 have been amended as follows:

1. A system for matching one or more abbreviations and one or more definitions, comprising:

a recognition process that examines character strings and determines which character strings to be abbreviated;

an abbreviation pattern generation process that creates from said determined character strings one or more abbreviation patterns representing candidate abbreviations, each of the one or more abbreviation patterns being a template that indicates a number and a location of characters and numeric strings within a candidate abbreviation; and

a definition pattern generation process that creates from said determined character strings one or more definition patterns representing candidate definitions, each of the one or more definition patterns being a template that indicates a number

and a location of numeric strings, stopwords, prefix/headword combinations and base words within a candidate definition.

21. A system for matching one or more abbreviations and one or more definitions, comprising:

means for examining character strings and determining which character strings to be abbreviated;

means for generating from said determined character strings one or more abbreviation patterns representing candidate abbreviations, each of the one or more abbreviation patterns being a template that indicates a number and a location of characters and numeric strings within a candidate abbreviation; and

means for generating from said determined character strings one or more definition patterns representing candidate definitions, each of the one or more definition patterns being a template that indicates a number and a location of numeric strings, stopwords, prefix/headword combinations and base words within a candidate definition.

22. A method for matching one or more abbreviations and one or more definitions, comprising:

examining character strings and determining which character strings to be abbreviated;

generating from said determined character strings one or more abbreviation patterns representing candidate abbreviations, each of the one or more abbreviation

patterns being a template that indicates a number and a location of characters and numeric strings within a candidate abbreviation; and

generating from said determined character strings one or more definition patterns representing candidate definitions, each of the one or more definition patterns being a template that indicates a number and a location of numeric strings, stopwords, prefix/headword combinations and base words within a candidate definition.

***Allowable Subject Matter***

2. Claims 1-22 are allowed over prior art of record. The following is an examiner's statement of reasons for allowance: Larkey et al. (non-patent publication, already of record) disclose a method and system for extracting acronym/abbreviation by detecting if abbreviations are present in input character strings, and if so, extracting the abbreviations and associated definitions. Abbreviations and associated definitions are stored in a database for subsequent use in retrieval applications (*referring to Larkey*). Malsheen et al. (USPN 5634084, already of record) teach and method of and system for expanding abbreviations/acronyms in that text of a document is checked to determine if abbreviations/acronyms are present, and if so, expanding the abbreviations/acronyms by accessing an abbreviation/acronym database (*referring to Malsheen*). Both Larkey et al. and Malsheen et al. fail to specifically disclose an abbreviation pattern generation process that creates from said determined character strings one or more abbreviation patterns representing candidate abbreviations, each of the one or more abbreviation patterns being a template that indicates a number and a location of characters and

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numeric strings within a candidate abbreviation; and a definition pattern generation process that creates from said determined character strings one or more definition patterns representing candidate definitions, each of the one or more definition patterns being a template that indicates a number and a location of numeric strings, stopwords, prefix/headword combinations and base words within a candidate definition.

Furthermore, it would have not been obvious to one of ordinary skill in the art at the time of invention to modify Larkey et al. and/or Malsheen et al. in order to obtain the claimed invention. Therefore, claims 1-22 are allowed over prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUYEN X. VO whose telephone number is (571)272-7631. The examiner can normally be reached on M-F, 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Edouard can be reached on 571-272-7603. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Huyen X Vo/  
Primary Examiner, Art Unit 2626

10/25/2008

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